WHAT IS CLAIMED IS'.

- Coated component having a wear-resistant layer which is 1. applied to a surface, which is to be protected, of the component which is subjected to mechanical and/or fluidic loads and substantially comprises amorphous or amorphousnanocrystalline metals, characterized in that the layer (6) consists of an alloy based on Cu-Al-Ti or Cu-Al-Ta or Cu-Al-Zr or Pt-Al-Si or Ta-Si-N, at least one rare earth and a transition metal.
- Component according to Claim 1, characterized in that the transition metal is Cu or Ni or Co.
- Component according to one of more of the preceding claims, characterized in that the layer (6) is applied to the surface of the component by electrodeposition.
- Component according to Claim 1 or 2, characterized in that the layer (6) is applied to the surface of the component from the melt.
- Component according to Claim 1 or 2, characterized in that the layer (6) is applied to the surface of the component by means of the PVD process.
- Component according to Claim 1 of 2, characterized in 6. that the layer /(6) is applied to the surface of the component by thermal spraying.
- Comporent according to one or more of the preceding claims, characterized by a design as a component of an internal//combustion engine.
- /Component according to one or more of the preceding claims, characterized by a design as a component of a gas turbine around which gas or hot gas flows.

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- 9. Component according to one or more of the preceding claims, characterized by a design as a blade (7) of a gas turbine, to the root (8,9) of which the layer (6) is applied in order to protect against fretting.
- 10. Component according to one or more of the preceding claims, characterized in that the component substantially comprises fibre-reinforced plastic (FRP).
- 11. Component according to one or more of the preceding claims, characterized by a design as an FRP blade (3,12) and/or a support, which is designed as a disc or a ring, of an integrally bladed FRP rotor (10), to which the layer (6) is applied in order to protect against erosion and/or corrosion.
- 12. Component according to one or more of Claims 1 to 9, characterized by a metallic design.
- 13. Component according to Claim 12, characterized by a design made from an alloy based on Ti or Ni or Co or Fe.
- 14. Component according to one or more of Claims 1 to 6, characterized by a design as a tyre of a rail-borne vehicle, to which the layer (6) is applied.
- 15. Component according to one or more of Claims 1 to 7, characterized by a design as a component of a reciprocating engine, such as a valve, a camshaft, a crankshaft, a piston ring or a piston pin, to which the layer (6) is applied.

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